

SEQUENCE LISTING

<110> Granoff, Dan M.
Moe, Gregory R.

<120> USE OF MONOCLONAL ANTIBODIES THAT DEFINE UNIQUE
MENINGOCOCCAL B EPITOPES IN THE PREPARATION OF VACCINE
COMPOSITIONS

<130> 1238.002

<140> 08/925,002

<141> 1997-08-27

<160> 68

<170> PatentIn Ver. 2.0

<210> 1

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 1

Pro Leu Arg Ser Leu Arg Ser Tyr Trp
1 5

<210> 2

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 2

Ser Asn Cys Glu Ile Trp Arg Val Gly Cys
1 5 10

<210> 3

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 3

Cys Met Arg Tyr Glu Ala Thr Cys
1 5

<210> 4
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 4
Cys Gly Leu Pro Arg Phe Arg Cys
1 5

<210> 5
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 5
Tyr Cys Gln Ile Gln Gly Ser Cys
1 5

<210> 6
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 6
Gln Val Pro Cys Ser Ser Arg Arg Gly Cys
1 5 10

<210> 7
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 7

Arg Tyr Gly Cys Leu Leu Met Arg Gly Cys
1 5 10

<210> 8

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 8

Phe His Cys Lys Val Asn Arg Gly Cys
1 5

<210> 9

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 9

Ser Cys Arg Ser Lys Asn Ser Ala Gly Cys
1 5 10

<210> 10

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 10

Thr Val Glu Thr Val Glu Ser Cys
1 5

<210> 11

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 11

Tyr Gln Gly Pro Leu Gly Trp Arg
1 5

<210> 12

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 12

Cys Trp Pro Thr Leu Glu Gly Cys
1 5

<210> 13

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 13

Cys Leu Thr Ser Trp Ser Ser Cys
1 5

<210> 14

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 14

Cys Gly Leu Glu Leu Gln Gly Cys
1 5

<210> 15

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 15

Cys Thr Thr Ile Met Cys Ser Thr
1 5

<210> 16
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 16
Gly Tyr Glu Val Gln Pro Phe His
1 5

<210> 17
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 17
Val Ala Lys Thr Val Arg Pro Pro
1 5

<210> 18
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 18
Trp Ala Ser Trp Val Gly Gly Pro
1 5

<210> 19
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 19

Asp Asp Gly Tyr Glu Ile Arg Trp
1 5

<210> 20
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 20
Ser Arg Met Gly Gly Arg Arg
1 5

<210> 21
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 21
His Asn Lys Ser Lys Leu Glu Ala
1 5

<210> 22
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 22
Gly His Gly Ala Tyr Thr Arg Leu
1 5

<210> 23
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 23

Lys Ser Leu Asn Ala Met Val Leu
1 5

<210> 24
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 24
Pro Trp Ser Arg Leu Lys Ser Pro
1 5

<210> 25
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 25
Pro Ser Lys Gly Lys Val Leu Ser
1 5

<210> 26
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 26
Gly Pro Met Ser Ile Asp Leu Arg
1 5

<210> 27
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 27

Arg Thr Glu Leu Gly Trp Arg Tyr
1 5

<210> 28
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 28
Ser Asp Ser Gly Cys Tyr Gly Tyr
1 5

<210> 29
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 29
Cys Gly Thr Gln His Val Gly Cys
1 5

<210> 30
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 30
Cys Gly Thr His Asp Leu Ala Cys
1 5

<210> 31
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 31

Cys Gln Lys Gly Ala Arg Gly Cys
1 5

<210> 32
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 32
Cys Ser Arg Tyr Asn Gly Gly Cys
1 5

<210> 33
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 33
Cys Gly Arg Ser Thr Glu Leu Cys
1 5

<210> 34
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 34
Cys Arg Asn Ser Gln Gly Tyr Cys
1 5

<210> 35
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 35

Leu Asp Ser Gln Leu Arg Arg Thr
1 5

<210> 36
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 36
Gly Trp Leu Phe Arg Gly Leu Met
1 5

<210> 37
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 37
Leu Asn Phe Lys Val Arg His Asn
1 5

<210> 38
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 38
Ala Lys Ser Val His Tyr Gly Ile
1 5

<210> 39
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 39

Cys Val Ala Leu Met Gly Gly Cys
1 5

<210> 40
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 40
Cys Gln Lys Gly Ala Arg Ala Arg Gly Cys
1 5 10

<210> 41
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 41
Phe Ala Ala Ala Leu Gly Gln Asn
1 5

<210> 42
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 42
Tyr Ser His Trp Lys Trp Arg Trp
1 5

<210> 43
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 43

Gln Met Arg Pro Ala Leu Asn Ser
1 5

<210> 44
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 44
Trp Leu Asp Arg Gly Ser Thr Pro
1 5

<210> 45
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 45
Asp Trp Asp Arg Ala Val Val Leu
1 5

<210> 46
<211> 8
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 46
Phe Pro Leu Leu Arg Gly Ala Arg
1 5

<210> 47
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 47

Phe Ala Trp Ser Cys Thr Trp Pro Gly Cys
1 5 10

<210> 48

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 48

Lys Leu His Val Gly Pro Arg Asn

1 5

<210> 49

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 49

Leu Phe Pro Lys Pro Arg Leu Pro

1 5

<210> 50

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 50

Tyr Leu Gly Thr Ser Arg Asn Gly Leu

1 5

<210> 51

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 51

Cys Gly Thr His Asp Leu Ala Cys
1 5

<210> 52
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 52
Cys Gly Ser Ala Phe Ser Ala His Pro
1 5

<210> 53
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 53
Ser Trp Trp His Asn Tyr Cys Pro Gly Cys
1 5 10

<210> 54
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 54
Glu Arg Cys Ala Cys Gly Arg Gly Gly Cys
1 5 10

<210> 55
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 55

Glu Thr Lys Glu Arg Gly Glu Ser Gly Cys
1 5 10

<210> 56
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 56
Ala Phe Cys Cys Gly Ser Gly Thr Arg Gly Cys
1 5 10

<210> 57
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 57
Ala Phe Cys Gly Ser Gly Thr Arg Gly Cys
1 5 10

<210> 58
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 58
Asn Leu Ser Ser Pro Cys Gly Arg Gly Cys
1 5 10

<210> 59
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 59

Val Ala Cys Arg Ser Gly Met Gly Gly Cys
1 5 10

<210> 60
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 60
Ile Arg Ser Gly Cys Arg Pro Val Gly Cys
1 5 10

<210> 61
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 61
Cys Trp Lys Pro Gly Arg Ser Gly Cys
1 5

<210> 62
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 62
Phe Val Arg Gly Val Gly Val Gly Cys
1 5

<210> 63
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 63

Gly Cys Trp Arg Trp Ile Gln Pro Gly Cys
1 5 10

<210> 64
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 64
Phe Ala Trp Ser Cys Thr Trp Pro Gly Cys
1 5 10

<210> 65
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 65
Arg Cys Arg Gly His Gly Gly Pro Gly Cys
1 5 10

<210> 66
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 66
Phe Ala Trp Ser Cys Thr Trp Pro Gly Cys
1 5 10

<210> 67
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: sequence from
a phage display peptide library

<400> 67

Cys Asn Leu Arg Met Ser Ser Ala Gly Cys
1 5 10

<210> 68

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: soluble
irrelevant peptide

<400> 68

Gln Trp Glu Arg Thr Tyr
1 5